

DEC 22 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/775,840 Confirmation No. 1645
Applicants : Carey John Naquin,
John R. Hardin, Jr.,
Chris Maranuk,
Jim Estep,
David Rios-Aleman, and
Haoshi Song
Filed : February 10, 2004
TC/A.U. : 3672
Examiner : Thomas S. Bomar

Title : Apparatus for Changing Wellbore Fluid Temperature
Docket No. : 1391-46000
Client Ref. No.: 2003-IP-011711 USA
Customer No. : 23505

Date : December 22, 2005

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

REPLY TO OFFICE ACTION DATED JUNE 27, 2005

Sir:

Please amend the above-identified application as follows.

Amendments to the Specification begin on page 2 of this paper.**Amendments to the Claims** are reflected in the listing of the claims that begins on page 5 of this paper.**Amendments to the Drawings** begin on page 16 of this paper and include attached replacement sheets.**Remarks** begin on page 17 of this paper.**An Appendix** including amended drawing figures is attached following page 24 of this paper.